

## **CLAIMS:**

1. Medical treatment apparatus with a hand piece (1) equipped with an ultrasound vibration generator and a sonotrode (3) attached to the hand piece (1), characterized in that an adaptation sleeve (10) can be slid over the sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving the suction tube (14).
2. Medical treatment apparatus according to claim 1 character as in that a separator (15) is furnished between the suction unit (A) and the suction hose (14).
3. Medical treatment apparatus according to claim 1 characterized in that the suction tube out of an opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

4. Medical treatment apparatus according to claim 1 characterized in that the treatment face of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

5. Medical treatment apparatus according to claim 1 characterized in that the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

6. Medical treatment apparatus for the treatment of septic wounds and/or debridement comprising an ultrasound generator, a hand piece and a sonotrode attached at the hand piece, characterized in that the ultrasound generator operates according to the piezo ceramic principle.

7. Medical treatment apparatus according to claim 6 characterized in that an adaptation sleeve (10) can be slid over the sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at

the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving of a suction tube (14).

8. Medical treatment apparatus according to claim 6 characterized in that a separator (15) is furnished between the suction unit (A) and the suction tube (14).

9. Medical treatment apparatus according to claim 6 characterized in that a suction tube out of an opaque or a transparent material is plugged onto the front and of the adaptation sleeve (10).

10. Medical treatment apparatus according to claim 6 characterized in that the treatment surface of the sonotrode (3) is disposed clearly outside the front edge of the suction tube (11).

11. Medical treatment apparatus according to claim 6 characterized in that the apparatus is set for frequency region from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

12. Medical treatment apparatus for the treatment of septic wounds and/or debridement comprising an ultrasound generator, a hand piece and a sonotrode attached to the hand piece characterized in that the ultrasound generator operates according to the magneto strictive principle.

13. Medical treatment apparatus according to claim 12, characterized in that an adaptation sleeve (10) can be slid over the sonotrode (3) of the medical treatment apparatus and wherein the adaptation sleeve (10) can be attached at the hand piece (1), wherein the adaptation sleeve (10) is equipped with a connector (12, 13) for receiving of a suction tube (14).

14. Medical treatment apparatus according to claim 12 characterized in that a separator (15) is furnished between the suction unit (8) and the suction hose (14).

15. Medical treatment apparatus according to claim 10 characterized in that a suction tube out of opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

16. Medical treatment apparatus according to claim 12, characterized in that the treat surface of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

17. Medical treatment apparatus according to claim 12, characterized in that the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.